

## **REMARKS**

### **I. Introduction**

Claims 21 to 36 are pending in the present application. In view of the following remarks, it is respectfully submitted that all of the presently pending claims are allowable, and reconsideration is respectfully requested.

### **II. Rejection of Claims 21 to 24, 27 to 29, and 32 Under 35 U.S.C. § 102(b)**

Claims 21 to 24, 27 to 29, and 32 were rejected under 35 U.S.C. § 102(b) as anticipated by U.S. Patent No. 6,171,055 ("Vos et al."). It is respectfully submitted that Vos et al. do not anticipate the present claims for at least the following reasons.

To anticipate a claim, each and every element as set forth in the claim must be found in a single prior art reference. Verdegaal Bros. v. Union Oil Co. of Calif., 814 F.2d 628, 631, 2 U.S.P.Q.2d 1051, 1053 (Fed. Cir. 1987). Furthermore, "[t]he identical invention must be shown in as complete detail as is contained in the . . . claim." Richardson v. Suzuki Motor Co., 868 F.2d 1226, 1236, 9 U.S.P.Q.2d 1913, 1920 (Fed. Cir. 1989). That is, the prior art must describe the elements arranged as required by the claims. In re Bond, 910 F.2d 831, 15 U.S.P.Q.2d 1566 (Fed. Cir. 1990).

Claim 21 relates to a multivalve control system, including, *inter alia*, a controlled multivalve system; a plurality of controllers; a plurality of comparators; and *a conversion device, input variables of the conversion device corresponding to output variables of the controllers, the conversion device configured to calculate, at least from the output variables of the controllers, the correcting variables, the conversion device configured to superimpose, on the output variables of the controllers, an input control component that is a function of an actual value to calculate the correcting variables.* Claims 27 and 32 include features analogous to the features included in claim 21.

Vos et al. do not identically disclose, or even suggest, all of the claimed features of claims 21, 27, and 32. Specifically, Vos et al. do not even refer to a conversion device. Instead, Vos et al. merely indicate controllers 66, 68 connected directly to the engine, drivetrain, propeller, and actuators dynamics in Figure 2. The Final Office Action at page 3 asserts that element 30 of Vos et al. is a conversion device. However, element 30 of Vos et al. is merely a FADEC controller that includes controllers 66, 68. (Vos et al., col. 5, lines 48 to 52; and Figures 1 and 2).

Thus, nowhere do Vos et al. disclose *a conversion device*, as provided for in the context of claims 21, 27, and 32. In further support, Vos et al. merely indicate that the FADEC controller 30 uses detected air flight conditions and the commanded thrust to access stored look-up tables of predetermined MAP and RPM set points, which are sent to the controllers 66, 68. (Vos et al., col. 6, lines 36 to 43; and col. 7, lines 1 to 15). Then, controllers 66, 68 merely output control signals directly to the engine 2 based on the received MAP and RPM set points. (Vos et al., col. 6, lines 22 to 24; and col. 7, lines 1 to 15). Thus, Vos et al. merely indicate controllers 66, 68 that output, directly to the engine, control signals corresponding to predetermined set points, but do not output control signals to any conversion device. (Vos et al., col. 3, lines 6 to 12; and col. 4, lines 4 to 7). Further, Vos et al. do not indicate any input control component superimposed on the output signals of the controllers by a conversion device. Therefore, Vos et al. do not identically disclose, or even suggest the features of *a conversion device, input variables of the conversion device corresponding to output variables of the controllers, the conversion device configured to calculate, at least from the output variables of the controllers, the correcting variables, the conversion device configured to superimpose, on the output variables of the controllers, an input control component that is a function of an actual value to calculate the correcting variables*, as provided for in the context of claims 21, 27, and 32.

Accordingly, Vos et al. do not identically disclose, or even suggest, all of the features included in claims 21, 27, and 32. As such, it is respectfully submitted that Vos et al. do not anticipate claims 21, 27, and 32.

As for claims 22 to 24, which ultimately depend from claim 21 and therefore include all of the features included in claim 21, and claims 28 and 29, which depend from claim 27 and therefore include all of the features included in claim 27, it is respectfully submitted that Vos et al. do not anticipate these dependent claims for at least the same reasons more fully set forth above.

In view of all the foregoing, withdrawal of this rejection is respectfully requested.

### **III. Rejection of Claims 25, 26, 30, and 31 Under 35 U.S.C. § 103(a)**

Claims 25, 26, 30, and 31 were rejected under 35 U.S.C. § 103(a) as unpatentable over the combination of Vos et al. and U.S. Patent No. 5,951,608 ("Osder"). It is respectfully submitted that the combination of Vos et al. and Osder

does not render unpatentable the presently pending claims for at least the following reasons.

Claims 25 and 26 ultimately depend from claim 21, and claims 30 and 31 ultimately depend from claim 27. As more fully set forth above, Vos et al. do not disclose, or even suggest, all of the features included in claims 21 and 27. Osder also does not disclose, or even suggest, all of the features included in claims 21 and 27, and thus, fails to cure this critical deficiency.

Accordingly, it is respectfully submitted that the combination of Vos et al. and Osder does not disclose, or even suggest, all of the features included in claims 21 and 27, from which claims 25, 26, 30, and 31 ultimately depend. As such, it is respectfully submitted that the combination of Vos et al. and Osder does not render unpatentable claims 25, 26, 30, and 31, which ultimately depend from claims 21 and 27.

In view of all of the foregoing, withdrawal of this rejection is respectfully requested.

#### **IV. Rejection of Claim 33 Under 35 U.S.C. § 103(a)**

Claim 33 was rejected under 35 U.S.C. § 103(a) as unpatentable over the combination of Vos et al. and U.S. Patent No. 6,856,039 ("Mikhail et al."). It is respectfully submitted that the combination of Vos et al. and Mikhail et al. does not render unpatentable the present claim for at least the following reasons.

Claim 33 depends from claim 32. As more fully set forth above, Vos et al. do not disclose, or even suggest, all of the features included in claim 32. Mikhail et al. also do not disclose, or even suggest, all of the features included in claim 32, and thus, fail to cure this critical deficiency.

Accordingly, it is respectfully submitted that the combination of Vos et al. and Mikhail et al. does not disclose, or even suggest, all of the features included in claim 32, from which claim 33 depends. As such, it is respectfully submitted that the combination of Vos et al. and Mikhail et al. does not render unpatentable claim 33, which depends from claim 32.

In view of all of the foregoing, withdrawal of this rejection is respectfully requested.

**V. Rejection of Claims 34 to 36 Under 35 U.S.C. § 103(a)**

Claims 34 to 36 were rejected under 35 U.S.C. § 103(a) as unpatentable over the combination of Vos et al., Mikhail et al., and Osder. It is respectfully submitted that the combination of Vos et al., Mikhail et al., and Osder does not render unpatentable the present claims for at least the following reasons.

Claims 34 to 36 ultimately depend from claim 32. As more fully set forth above, Vos et al. do not disclose, or even suggest, all of the features included in claim 32. Also, as more fully set forth above, Mikhail et al. and Osder also do not disclose, or even suggest, all of the features included in claim 32, and thus, fail to cure this critical deficiency.

Accordingly, it is respectfully submitted that the combination of Vos et al., Mikhail et al., and Osder does not disclose, or even suggest, all of the features included in claim 32, from which claims 34 to 36 ultimately depend. As such, it is respectfully submitted that the combination of Vos et al., Mikhail et al., and Osder does not render unpatentable claims 34 to 36, which ultimately depend from claim 32.

In view of all of the foregoing, withdrawal of this rejection is respectfully requested.

**VI. Conclusion**

It is therefore respectfully submitted that all of the presently pending claims are allowable. All issues raised by the Examiner having been addressed, an early and favorable action on the merits is earnestly solicited.

Respectfully submitted,

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